AMENDMENTS TO THE SPECIFICATION

➤ Please replace the paragraph spanning pages 18-19, beginning at line 30 on page 18 and ending at line 8 on page 19, with the following text:

An "SH3" or "Src Homology 3" domain is a protein domain of generally about 60 amino acid residues first identified as a conserved sequence in the non-catalytic part of several cytoplasmic protein tyrosine kinases (e.g., Src, Abl, Lck). SH3 domains mediate assembly of specific protein complexes via binding to proline-rich peptides. Exemplary SH3 domains are represented by amino acids 137-192, 199-258, 448-505 and 832-888 of SEQ ID NO:2 and are set forth in SEQ ID Nos: 27-30. In certain embodiments, an SH3 domain interacts with a consensus sequence of RXaaXaaPXaaX6P (where X6, as defined in table 1 below, is a hydrophobic amino acid). In certain embodiments, an SH3 domain interacts with one or more of the following sequences: P(T/S)AP (SEQ ID NO: 37), PFRDY (SEQ ID NO: 38), RPEPTAP (SEQ ID NO: 39), RQGPKEP (SEQ ID NO: 40), RQGPKEPFR (SEQ ID NO: 41), RPEPTAPEE (SEQ ID NO: 42) and RPLPVAP (SEQ ID NO: 43).

- ▶ Please replace the paragraph spanning pages 92-93, beginning at line 21 on page 92 and ending at line 10 on page 93, with the following text:
- Construction of siRNA retroviral vectors:

hPOSH scrambled oligonucleotide (5'- CACACACTGCCG TCAACT GTTCAAGAGAC AGTTGACGGCAGTGTGTGTTTTTT -3' (SEQ ID NO: 44); and 5'- AATTAAAAAACACA CACTGCCGTCAACTGTC TCTTGAACAGTTGA CGGCAGTGTGTGGGCC -3' (SEQ ID NO: 45)) were annealed and cloned into the ApaI-EcoRI digested pSilencer 1.0-US (Ambion) to generate pSIL-scrambled. Subsequently, the U6-promoter and RNAi sequences were digested with BamHI, the ends filled in and the insert cloned into the Olil site in the retroviral vector, pMSVhyg (Clontech), generating pMSCVhyg-U6-scrambled. hPOSH oligonucleotide encoding RNAi against hPOSH (5'-AACAGAGGCCTTGGAAA CCTGGAAGC TTGCAGGTTT CCAAGGCCTCTGTT -3' (SEQ ID NO: 46); and 5'- GATCAACAGAG GCCTTGGAAACCTGC AAGCTTCCAGGTTTCCAA GGCCTCTGTT -3' (SEQ ID NO: 47)) were annealed and cloned into the BamHI-EcoRI site of pLIT-U6, generating pLIT-U6 hPOSH-230. pLIT-U6 is an shRNA vector containing the human U6 promoter (amplified by PCR from

human genomic DNA with the primers, 5'-GGCCCACTAGTCA AGGTCG GGCA GGAAGA- 3' (SEQ ID NO: 48) and 5'- GCCGAATT CAAAAAGGATC CGGCGATATCCGG TGTTTCGTCCTTTCCA -3' (SEQ ID NO: 49)) cloned into pLITMUS38 (New England Biolabs) digested with SpeI-EcoRI. Subsequently, the U6 promoter-hPOSH shRNA (pLIT-U6 hPOSH-230 digested with SnaBI and PvuI) was cloned into the Olil site of pMSVhyg (Clontech), generating pMSCVhyg U6-hPOSH-230.

Please replace the text spanning pages 94-95, starting at line 24 on page 94 and ending at line 3 on page 95, with the following text:

Protein sequence: Corresponds to as 53-888 of POSH (RING domain deleted) (SEQ ID NO: 50)

RTLVGSGVEELPSNILLVRLLDGIKQRPWKPGPGGGSGTNCTNALRSQSSTVANCSSKDL
QSSQGGQQPRVQSWSPPVRGIPQLPCAKALYNYEGKEPGDLKFSKGDIIILRRQVDENWY

HGEVNGIHGFFPTNFVQIIKPLPQPPPQCKALYDFEVKDKEADKDCLPFAKDDVLTVIRR

VDENWAEGMLADKIGIFPISYVEFNSAAKQLIEWDKPPVPGVDAGECSSAAAQSSTAPKH

SDTKKNTKKRHSFTSLTMANKSSQASQNRHSMEISPPVLISSSNPTAAARISELSGLSCS
APSQVHISTTGLIVTPPPSSPVTTGPSFTFFPSDVPYQAALGTLNPPLPPPPLLAATVLAS

TPPGATAAAAAAAGMGPRPMAGSTDQIAHLRPQTRPSVYVAIYPYTPRKEDELELRKGEMF

LVFERCQDGWFKGTSMHTSKIGVFPGNYVAPVTRAVTNASQAKVPMSTAGQTSRGVTMVS
PSTAGGPAQKLQGNGVAGSPSVVPAAVVSAAHIQTSPQAKVLLHMTGQMTVNQARNAVRT

VAAHNQERPTAAVTPIQVQNAAGLSPASVGLSHHSLASPQPAPLMPGSATHTAAISISRA
SAPLACAAAAPLTSPSITSASLEAEPSGRIVTVLPGLPTSPDSASSACGNSSATKPDKDS
KKEKKGLLKLLSGASTKRKPRVSPPASPTLEVELGSAELPLQGAVGPELPPGGGHGRAGS
CPVDGDGPVTTAVAGAALAQDAFHRKASSLDSAVPIAPPPRQACSSLGPVLNESRPVVCE
RHRVVVSYPPQSEAELELKEGDIVFVHKKREDGWFKGTLORNGKTGLFPGSFVENI

Please replace the text spanning pages 95-101, starting at line 8 on page 95 and ending at line 21 on page 101, with the following text:

Human HERPUD1 mRNA sequence - var2 (public gi: 10441910) (SEQ ID NO: 52) GCTGTGTGGCCCAGGCTTTTCTCAAACTCCTGAGGGCAAGCGATCCTCCCACCTCAGCCTCCTGAGTAGC CATTTCACAATGTTTATTCACATATATGGTATTAGTATTCTAATGTAGTGATGCACTCTAAATTTGCATT ATATTTCCTAGAACATCTGAACAGAGCATAGGAAATTCCCTATTTTGCCATTATCAGTTCTAACAAAAAT CTTAAAAGCACTTTATCATTTCATTTCCCTGCACTGTAATTTTTTTAAATGATCAAAAACAGTATCATAC CAAGGCTTACTTATATTGGAATACTATTTTAGAAAGTTGTGGGCTGGGTTGTATTTATAAATCTTGTTGG TCAGATGTCTGCAATGAGTAAATTTAGCACCATTATCAGGAAGCTTTCTCACCAATGACAACTTCATTGG AAGATTTTAATGAAAGTGTAGCATACTCTAGGGAAAAAATATGAATATTTTAGCATCTATGTATTGAAAA TTATGTTGAATAAATGTCAGACTATTTTTTACATAACGTTGCTTCTGTTTAATTTTGTCACGTTCAGAGG TGGGGGGTAGGAGATGTAAGCCCTTGACAGCAAAATAATTCCTTTTGCTTGATTTCAGACAGTTGCATCA GCTCCTTTGTTCTGTGTTCATGTTACACTTATTTAGGTGGCTGAATCCACAGAGGAGCCTGCTGGTTCTA ATCGGGGACAGTATCCTGAGGATTCCTCAAGTGATGGTTTAAGGCAAAGGGAAGTTCTTCGGAACCTTTC TTCCCCTGGATGGGAAAACATCTCAAGGCCTGAAGCTGCCCAGCAGGCATTCCAAGGCCTGGGTCCTGGT $\tt TTCTCCGGTTACACACCCTATGGGTGGCTTCAGCTTTCCTGGTTCCAGCAGATATATGCACGACAGTACT$ ACATGCAATATTTAGCAGCCACTGCTGCATCAGGGGCTTTTGTTCCACCACCAAGTGCACAAGAGATACC TGTGGTCTCTGCACCTGCTCCAGCCCCTATTCACAACCAGTTTCCAGCTGAAAACCAGCCTGCCAATCAG AATGCTGCTCCTCAAGTGGTTGTTAATCCTGGAGCCAATCAAAATTTGCGGATGAATGCACAAGGTGGCC TGTTTTTCTCAGTATCCTCTACTTCTACTCCTCCCTGAGCAGATTCCTCATGGTCATGGGGGGCCACCGTT GTCCTCCTCCTGACGTTGTAAATCAGGACCCCAACAATAACTTACAGGAAGGCACTGATCCTGAAACTGA ACAGCATGGCTTGTCTTCAAGACTTTCTTTGCCTCTTCTTCCAGAAGGCCCCCCAGCCATCGCAAACT GATGGTGTTTGTGCTGTAGCTGTTGGAGGCTTTGACAGGAATGGACTGGATCACCTGACTCCAGCTAGAT TGCCTCTCCTGGACATGGCAATGATGAGTTTTTAAAAAACAGTGTGGATGATGATATGCTTTTGTGAGCA AGCAAAAGCAGAAACGTGAAGCCGTGATACAAATTGGTGAACAAAAATGCCCAAGGCTTCTCATGTCTT TATTCTGAAGAGCTTTAATATATCTCTATGTAGTTTAATAAGCACTGTACGTAGAAGGCCTTAGGTGTT ATGCAGAAGTGGTTCTGCTGGTACGATTTGATTCCTGTTGGAATGTTTAAATTACACTAAGTGTACTACT TTATATAATCAATGAAATTGCTAGACATGTTTTAGCAGGACTTTTCTAGGAAAGACTTATGTATAATTGC TTTTTAAAATGCAGTGCTTTACTTTAAACTAAGGGGAACTTTGCGGAGGTGAAAACCTTTGCTGGGTTTT

Human HERPUD1 mRNA sequence - var3 (public gi: 3005722) (SEQ ID NO: 53) GGCCACCTCAAGGCCCACCTGAGCCGCGTCTACCCCGAGCGTCCAGAGGACCAGAGGTTAATTT ATTCTGGGAAGCTGTTGTTGGATCACCAATGTCTCAGGGACTTGCTTCCAAAGGAAAAACGGCATGTTTT GCATCTGGTGTGCAATGTGAAGAGTCCTTCAAAAATGCCAGAAATCAACGCCAAGGTGGCTGAATCCACA ${\tt GAGGAGCCTGCTGGTTCTAATCGGGGACAGTATCCTGAGGATTCCTCAAGTGATGGTTTAAGGCAAAGGG}$ AAGTTCTTCGGAACCTTTCTTCCCCTGGATGGGAAAACATCTCAAGGCCTGAAGCTGCCCAGCAGGCATT ATATATGCACGACAGTACTACATGCAATATTTAGCAGCCACTGCTGCATCAGGGGGCTTTTGTTCCACCAC CAAGTGCACAAGAGATACCTGTGGTCTCTGCACCTGCTCCAGCCCCTATTCACAACCAGTTTCCAGCTGA AAACCAGCCTGCCAATCAGAATGCTGCTCCTCAAGTGGTTGTTAATCCTGGAGCCAATCAAAATTTGCGG ATTCAGCAGCTACATTTTCTGTTTTTCTCAGTATCCTCTACTTCTACTCCTCCCTGAGCAGATTCCTCAT GGTCATGGGGGCCACCGTTGTTATGTACCTGCATCACGTTGGGTGGTTTCCATTTAGACCGAGGCCGGTT CAGAACTTCCCAAATGATGGTCCTCCTCCTGACGTTGTAAATCAGGACCCCAACAATAACTTACAGGAAG CCCCCAGCCATCGCAAACTGATGGTGTTTGTGCTGTAGCTGTTGGAGGCTTTGACAGGAATGGACTGGAT

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Human HERPUD1 mRNA sequence - var4 (public gi: 21619176) (SEQ ID NO: 54) CGGAGCCCGACACCGCCGCCGCCATGGAGTCCGAGACCCGAGCCCGTCACGCTCCTGGTGA AGAGCCCCAACCAGCGCCACCGCGACTTGGAGCTGAGTGGCGACCGCGGCTGGAGTGTGGGCCACCTCAA GGCCCACCTGAGCCGCGTCTACCCCGAGCGTCCGCGTCCAGAGGACCAGAGGTTAATTTATTCTGGGAAG CTGTTGTTGGATCACCAATGTCTCAGGGACTTGCTTCCAAAGCAGAAAAACGGCATGTTTTGCATCTGG TGTGCAATGTGAAGAGTCCTTCAAAAATGCCAGAAATCAACGCCAAGGTGGCTGAATCCACAGAGGAGCC TGCTGGTTCTAATCGGGGACAGTATCCTGAGGATTCCTCAAGTGATGGTTTAAGGCAAAGGGAAGTTCTT CGGAACCTTTCTTCCCCTGGATGGGAAAACATCTCAAGGCCTGAAGCTGCCCAGCAGGCATTCCAAGGCC ${\tt TGGGTCCTGGTTTCTCCGGTTACACACCCTATGGGTGGCTTCAGCTTTCCTGGTTCCAGCAGATATATGC}$ ACGACAGTACTACATGCAATATTTAGCAGCCACTGCTGCATCAGGGGGCTTTTGTTCCACCACCAAGTGCA CAAGAGATACCTGTGGTCTCTGCACCTGCTCCAGCCCCTATTCACAACCAGTTTCCAGCTGAAAACCAGC CTGCCAATCAGAATGCTGCTCCTCAAGTGGTTGTTAATCCTGGAGCCAATCAAAATTTGCGGATGAATGC GCTACATTTCTGTTTTTCTCAGTATCCTCTACTTCTACTCCTCCCTGAGCAGATTCCTCATGGTCATGG GGGCCACCGTTGTTATGTACCTGCATCACGTTGGGTGGTTTCCATTTAGACCGAGGCCGGTTCAGAACTT CCCAAATGATGGTCCTCCTCCTGACGTTGTAAATCAGGACCCCAACAATAACTTACAGGAAGGCACTGAT CCTGAAACTGAAGACCCCAACCACCTCCCTCCAGACAGGGATGTACTAGATGGCGAGCAGACCAGCCCCT CATCGCAAACTGATGGTGTTTGTGCTGTAGCTGTTGGAGGCTTTGACAGGAATGGACTGGATCACCTGAC TCCAGCTAGATTGCCTCTCCTGGACATGGCAATGATGAGTTTTTAAAAAACAGTGTGGATGATGATATGC TTTTGTGAGCAAGCAAAGCAGAAACGTGAAGCCGTGATACAAATTGGTGAACAAAAAATGCCCAAGGCTT CTCATGTCTTTATTCTGAAGAGCTTTAATATATACTCTATGTAGTTTAATAAGCACTGTACGTAGAAGGC GAAGTCATAGATGCAGAAGTGGTTCTGCTGGTACGATTTGATTCCTGTTGGAATGTTTAAATTACACTAA GTGTACTACTTTATATAATCAATGAAATTGCTAGACATGTTTTAGCAGGACTTTTCTAGGAAAGACTTAT GTATAATTGCTTTTTAAAATGCAGTGCTTTACTTTAAACTAAGGGGAACTTTGCGGAGGTGAAAACCTTT

Human HERPUD1 mRNA sequence - var5 (public gi: 14249882) (SEQ ID NO: 55) CGACACCGCCGCCGCCATGGAGTCCGAGACCGAACCCGAGCCCGTCACGCTCCTGGTGAAGAGCCCC AACCAGCGCCACCGCGACTTGGAGCTGAGTGGCGACCGGGCTGGAGTGTGGGCCACCTCAAGGCCCACC TGAGCCGCGTCTACCCCGAGCGTCCGCGTCCAGAGGACCAGAGGTTAATTTATTCTGGGAAGCTGTTGTT GGATCACCAATGTCTCAGGGACTTGCTTCCAAAGCAGGAAAAACGGCATGTTTTGCATCTGGTGTGCAAT GTGAAGAGTCCTTCAAAAATGCCAGAAATCAACGCCAAGGTGGCTGAATCCACAGAGGAGCCTGCTGGTT CTAATCGGGGACAGTATCCTGAGGATTCCTCAAGTGATGGTTTAAGGCAAAGGGAAGTTCTTCGGAACCT $\verb|TTCTTCCCCTGGATGGGAAAACATCTCAAGGCCTGAAGCTGCCCAGCAGGCATTCCAAGGCCTGGGTCCT|$ GGTTTCTCCGGTTACACACCCTATGGGTGGCTTCAGCTTTCCTGGTTCCAGCAGATATATGCACGACAGT ACTACATGCAATATTTAGCAGCCACTGCTGCATCAGGGGCTTTTGTTCCACCACCAAGTGCACAAGAGAT ACCTGTGGTCTCTGCACCTGCTCCAGCCCCTATTCACAACCAGTTTCCAGCTGAAAACCAGCCTGCCAAT CAGAATGCTGCTCCTCAAGTGGTTGTTAATCCTGGAGCCAATCAAAATTTGCGGATGAATGCACAAGGTG TTCTGTTTTTCTCAGTATCCTCTACTTCTACTCCTCCTGAGCAGATTCCTCATGGTCATGGGGGCCACC GTTGTTATGTACCTGCATCACGTTGGGTGGTTTCCATTTAGACCGAGGCCGGTTCAGAACTTCCCAAATG ATGGTCCTCCTCCTGACGTTGTAAATCAGGACCCCAACAATAACTTACAGGAAGGCACTGATCCTGAAAC TGAAGACCCCAACCACCTCCCTCCAGACAGGGATGTACTAGATGGCGAGCAGACCAGCCCCTCCTTTATG AGCACAGCATGGCTTGTCTTCAAGACTTTCTTTGCCTCTTCTTCCAGAAGGCCCCCCAGCCATCGCAA ACTGATGGTGTTTGTGCTGTAGCTGTTGGAGGCTTTGACAGGAATGGACTGGATCACCTGACTCCAGCTA GATTGCCTCTCGGACATGGCAATGATGAGTTTTTAAAAAACAGTGTGGATGATGATATGCTTTTGTGA GCAAGCAAAAGCAGAAACGTGAAGCCGTGATACAAATTGGTGAACAAAAAATGCCCAAGGCTTCTCATGT CTTTATTCTGAAGAGCTTTAATATATACTCTATGTAGTTTAATAAGCACTGTACGTAGAAGGCCTTAGGT

Human HERPUD1 mRNA sequence - var6 (public gi: 12652674) (SEQ ID NO: 56) CAACCAGCGCCACCGCGACTTGGAGCTGACTGGCCGACCGCGGCTGGAGTGTGGGCCACCTCAAGGCCCAC $\tt CTGAGCCGCGTCTACCCCGAGCGTCCGCGTCCAGAGGACCAGAGGTTAATTTATTCTGGGAAGCTGTTGT$ $\tt TGGATCACCAATGTCTCAGGGACTTGCTTCCAAAGCAGGAAAAACGGCATGTTTTGCATCTGGTGTGCAA$ TGTGAAGAGTCCTTCAAAAATGCCAGAAATCAACGCCAAGGTGGCTGAATCCACAGAGGAGCCTGCTGGT TCTAATCGGGGACAGTATCCTGAGGATTCCTCAAGTGATGGTTTAAGGCAAAGGGAAGTTCTTCGGAACC TTTCTTCCCCTGGATGGGAAAACATCTCAAGGCCTGAAGCTGCCCAGCAGGCATTCCAAGGCCTGGGTCC TGGTTTCTCCGGTTACACACCCTATGGGTGGCTTCAGCTTTCCTGGTTCCAGCAGATATATGCACGACAG TACTACATGCAATATTTAGCAGCCACTGCTGCATCAGGGGCTTTTGTTCCACCACCAAGTGCACAAGAGA TACCTGTGGTCTCTGCACCTGCTCCAGCCCCTATTCACAACCAGTTTCCAGCTGAAAACCAGCCTGCCAA TCAGAATGCTGCTCCTCAAGTGGTTGTTAATCCTGGAGCCAATCAAAATTTGCGGATGAATGCACAAGGT TTTCTGTTTTTCTCAGTATCCTCTACTTCTACTCCTCCTGAGCAGATTCCTCATGGTCATGGGGGCCAC CGTTGTTATGTACCTGCATCACGTTGGGTGGTTTCCATTTAGACCGAGGCCGGTTCAGAACTTCCCAAAT GATGGTCCTCCTGACGTTGTAAATCAGGACCCCAACAATAACTTACAGGAAGGCACTGATCCTGAAA CTGAAGACCCCAACCACCTCCCTCCAGACAGGGATGTACTAGATGGCGAGCAGACCAGCCCCTCCTTTAT GAGCACAGCATGGCTTGTCTTCAAGACTTTCTTTGCCTCTCTTCTTCCAGAAGGCCCCCCAGCCATCGCA AACTGATGGTGTTTGTGCTGTTGGAGGCTTTGACAGGAATGGACTGGATCACCTGACTCCAGCT AGATTGCCTCTCCTGGACATGGCAATGATGAGTTTTTTAAAAAACAGTGTGGATGATATGCTTTTGTG AGCAAGCAAAAGCAGAAACGTGAAGCCGTGATACAAATTGGTGAACAAAAATGCCCAAGGCTTCTCATG TCTTTATTCTGAAGAGCTTTAATATATATCTCTATGTAGTTTAATAAGCACTGTACGTAGAAGGCCTTAGG ATAGATGCAGAAGTGGTTCTGCTGGTACGATTTGATTCCTGTTGGAATGTTTAAATTACACTAAGTGTAC TACTTTATATAATCAATGAAATTGCTAGACATGTTTTAGCAGGACTTTTCTAGGAAAGACTTATGTATAA $\tt TTGCTTTTAAAATGCAGTGCTTTACTTTAAACTAAGGGGAACTTTGCGGAGGTGAAAACCTTTGCTGGG$

Human HERPUD1 mRNA sequence - var7 (public gi: 9711684) (SEQ ID NO: 57) GCGGAGCCCGACACCGCCGCCGCCGCCATGGAGTCCGAGACCGAGCCCGTCACGCTCCTGGTG AAGAGCCCCAACCAGCGCCACCTGGAGCTGGAGCTGAGCGGCGGCTGGAGTGTGGGCCACCTCA AGGCCCACCTGAGCCGCGTCTACCCCGAGCGTCCGCGTCCAGAGGACCAGAGGTTAATTTATTCTGGGAA GCTGTTGTTGGATCACCAATGTCTCAGGGACTTGCTTCCAAAGCAGGAAAAACGGCATGTTTTGCATCTG GTGTGCAATGTGAAGAGTCCTTCAAAAATGCCAGAAATCAACGCCAAGGTGGCTGAATCCACAGAGGGAGC CTGCTGGTTCTAATCGGGGACAGTATCCTGAGGATTCCTCAAGTGATGGTTTAAGGCAAAGGGAAGTTCT CTGGGTCCTGGTTTCTCCGGTTACACACCCTATGGGTGGCTTCAGCTTTCCTGGTTCCAGCAGATATATG CACGACAGTACTACATGCAATATTTAGCAGCCACTGCTGCATCAGGGGCTTTTGTTCCACCACCAAGTGC ACAAGAGATACCTGTGGTCTCTGCACCTGCTCCAGCCCCTATTCACAACCAGTTTCCAGCTGAAAACCAG CCTGCCAATCAGAATGCTGCTCCTCAAGTGGTTGTTAATCCTGGAGCCAATCAAAATTTGCGGATGAATG AGCTACATTTTCTGTTTTTCTCAGTATCCTCTACTTCTACTCCTCCCTGAGCAGATTCCTCATGGTCATG GGGGCCACCGTTGTTATGTACCTGCATCACGTTGGGTGGTTTCCATTTAGACCGAGGCCGGTTCAGAACT ${\tt TCCCAAATGATGGTCCTCCTGACGTTGTAAATCAGGACCCCAACAATAACTTACAGGAAGGCACTGA}$ TCCTGAAACTGAAGACCCCAACCACCTCCCTCCAGACAGGGATGTACTAGATGGCGAGCAGACCAGCCCC CCATCGCAAACTGATGGTGTTTGTGCTGTAGCTGTTGGAGGCTTTGACAGGAATGGACTGGATCACCTGA CTCCAGCTAGATTGCCTCTCCTGGACATGGCAATGATGATGATTTTTAAAAAACAGTGTGGATGATATG CTTTTGTGAGCAAGCAAAAGCAGAAACGTGAAGCCGTGATACAAATTGGTGAACAAAAATGCCCAAGGC TTCTCATGTCTTTATTCTGAAGAGCTTTAATATATACTCTATGTAGTTTAATAAGCACTGTACGTAGAAG TAGAAGTCATAGATGCAGAAGTGGTTCTGCTGGTACGATTTGATTCCTGTTGGAATGTTTAAATTACACT AAGTGTACTTTATATAATCAATGAAATTGCTAGACATGTTTTAGCAGGACTTTTCTAGGAAAGACTT ATGTATAATTGCTTTTTAAAATGCAGTGCTTTACTTTAAACTAAGGGGAACTTTGCGGAGGTGAAAACCT

Human HERPUD1 mRNA sequence - var8 (public gi: 3005718) (SEQ ID NO: 58) GAGCCCGACACCGCCGCCGCCGCCATGGAGTCCGAGACCGAACCCGAGCCCGTCACGCTCCTGGTGAAG AGCCCCAACCAGCGCCACCGCGACTTGGAGCTGAGTGGCGACCGCGGCTGGAGTGTGGGCCACCTCAAGG GTTGTTGGATCACCAATGTCTCAGGGACTTGCTTCCAAAGCAGGAAAAACGGCATGTTTTGCATCTGGTG TGCAATGTGAAGAGTCCTTCAAAAATGCCAGAAATCAACGCCAAGGTGGCTGAATCCACAGAGGAGCCTG CTGGTTCTAATCGGGGACAGTATCCTGAGGATTCCTCAAGTGATGGTTTAAGGCAAAGGGAAGTTCTTCG GAACCTTTCTTCCCCTGGATGGGAAAACATCTCAAGGCCTGAAGCTGCCCAGCAGGCATTCCAAGGCCTG GGTCCTGGTTTCTCCGGTTACACACCCTATGGGTGGCTTCAGCTTTCCTGGTTCCAGCAGATATATGCAC GACAGTACTACATGCAATATTTAGCAGCCACTGCTGCATCAGGGGGCTTTTGTTCCACCACCAAGTGCACA AGAGATACCTGTGGTCTCTGCACCTGCTCCAGCCCCTATTCACAACCAGTTTCCAGCTGAAAACCAGCCT GCCAATCAGAATGCTGCTCCTCAAGTGGTTGTTAATCCTGGAGCCAATCAAAATTTGCGGATGAATGCAC TACATTTTCTGTTTTTCTCAGTATCCTCTACTTCTACTCCTCCCTGAGCAGATTCCTCATGGTCATGGGG GCCACCGTTGTTATGTACCTGCATCACGTTGGGTGGTTTCCATTTAGACCGAGGCCGGTTCAGAACTTCC CAAATGATGGTCCTCCTCCTGACGTTGTAAATCAGGACCCCAACAATAACTTACAGGAAGGCACTGATCC TGAAACTGAAGACCCCAACCACCTCCCTCCAGACAGGGGATGTACTAGATGGCGAGCAGACCAGCCCCTCC TTTATGAGCACAGCATGGCTTGTCTTCAAGACTTTCTTTGCCTCTTCTTCCAGAAGGCCCCCCAGCCA ${\tt TCGCAAACTGATGGTGTTTGTGCTGTAGCTGTTGGAGGCTTTGACAGGAATGGACTGGATCACCTGACTC}$ CAGCTAGATTGCCTCTCCTGGACATGGCAATGATGAGTTTTTAAAAAACAGTGTGGATGATGATATGCTT TTGTGAGCAAGCAAAAGCAGAAACGTGAAGCCGTGATACAAATTGGTGAACAAAAAATGCCCAAGGCTTC TTAGGTGTTĠCATGTCTATGCTTGAGGAACTTTTCCAAATGTGTGTGTCTGCATGTGTTTTTTACATAG AAGTCATAGATGCAGAAGTGGTTCTGCTGGTACGATTTGATTCCTGTTGGAATGTTTAAATTACACTAAG TGTACTACTTTATATAATCAATGAAATTGCTAGACATGTTTTAGCAGGACTTTTCTAGGAAAGACTTATG TATAATTGCTTTTTAAAATGCAGTGCTTTACTTTAAACTAAGGGGAACTTTGCGGAGGTGAAAACCTTTG

Human HERPUD1 mRNA sequence - var9 (public gi: 285960) (SEQ ID NO: 59) GCCCGACACCGCCGCCGCCGCCATGGAGTCCGAGACCCGAGCCCGTCACGCTCCTGGTGAAGAG CCCCAACCAGCGCCACCGCGACTTGGAGCTGAGTGGCGACCGCGGCTGGAGTGTGGGCCACCTCAAGGCC CACCTGAGCCGCGTCTACCCCGAGCGTCCGCGTCCAGAGGACCAGAGGTTAATTTATTCTGGGAAGCTGT TGTTGGATCACCAATGTCTCAGGGACTTGCTTCCAAAGCAGGAAAAACGGCATGTTTTGCATCTGGTGTG CAATGTGAAGAGTCCTTCAAAAATGCCAGAAATCAACGCCAAGGTGGCTGAATCCACAGAGGAGCCTGCT GGTTCTAATCGGGGACAGTATCCTGAGGATTCCTCAAGTGATGGTTTAAGGCAAAGGGAAGTTCTTCGGA ACCTTTCTTCCCCTGGATGGGAAAACATCTCAAGGCCTGAAGCTGCCCAGCAGGCATTCCAAGGCCTGGG TCCTGGTTTCTCCGGTTACACACCCTATGGGTGGCTTCAGCTTTCCTGGTTCCAGCAGATATATGCACGA CAGTACTACATGCAATATTTAGCAGCCACTGCTGCATCAGGGGGCTTTTGTTCCACCACCACCAAGTGCACAAG AGATACCTGTGGTCTCTGCACCTGCTCCAGCCCCTATTCACAACCAGTTTCCAGCTGAAAACCAGCCTGC CAATCAGAATGCTGCTCCTCAAGTGGTTGTTAATCCTGGAGCCAATCAAAATTTGCGGATGAATGCACAA CATTTTCTGTTTTTCTCAGTATCCTCTACTTCTACTCCTCCTGAGCAGATTCCTCATGGTCATGGGGGGC ${\tt CACCGTTGTTATGTACCTGCATCACGTTGGGTGGTTTCCATTTAGACCGAGGCCGGTTCAGAACTTCCCA}$ AATGATGGTCCTCCTGACGTTGTAAATCAGGACCCCAACAATAACTTACAGGAAGGCACTGATCCTG AAACTGAAGACCCCAACCACCTCCCTCCAGACAGGGATGTACTAGATGGCGAGCAGACCAGCCCTCCTT GCAAACTGATGGTGTTTGTGCTGTAGCTGTTGGAGGCTTTGACAGGAATGGACTGGATCACCTGACTCCA GCTAGATTGCCTCTCGGACATGGCAATGATGAGTTTTTAAAAAACAGTGTGGATGATGATATGCTTTT GTGAGCAAGCAAAAGCAGAAACGTGAAGCCGTGATACAAATTGGTGAACAAAAAATGCCCAAGGCTTCTC ATGTGTTTATTCTGAAGAGCTTTAATATATATCTCTATGTAGTTTAATAAGCACTGTACGTAGAAGGCCTT GTCATAGATGCAGAAGTGGTTCTGCTGGTAAGATTTGATTCCTGTTGGAATGTTTAAATTACACTAAGTG TACTACTTTATATAATCAATGAAATTGCTAGACATGTTTTAGCAGGACTTTTCTAGGAAAGACTTATGTA TAATTGCTTTTTAAAATGCAGTGCTTTACTTTAAACTAAGGGGAACTTTGCGGAGGTGAAAACCTTTGCT GGGTTTTCTGTTCAATAAGTTTTACTATGAATGACCCTG

GAGCCCGACACCGCCGCCGCCGCCATGGAGTCCGAGACCCGAACCCGAGCCCGTCACGCTCCTGGTGAAG AGCCCCAACCAGCGCCACCGCGACTTGGAGCTGAGTGGCGACCGCGGCTGGAGTGTGGGCCACCTCAAGG GTTGTTGGATCACCAATGTCTCAGGGACTTGCTTCCAAAGCAGGAAAAACGGCATGTTTTGCATCTGGTG TGCAATGTGAAGAGTCCTTCAAAAATGCCAGAAATCAACGCCAAGGTGGCTGAATCCACAGAGGAGCCTG $\tt CTGGTTCTAATCGGGGACAGTATCCTGAGGATTCCTCAAGTGATGGTTTAAGGCAAAGGGAAGTTCTTCG$ GAACCTTTCTTCCCTGGATGGGAAAACATCTCAAGGCCTGAAGCTGCCCAGCAGGCATTCCAAGGCCTG GGTCCTGGTTTCTCCGGTTACACACCCTATGGGTGGCTTCAGCTTTCCTGGTTCCAGCAGATATATGCAC GACAGTACTACATGCAATATTTAGCAGCCACTGCTGCATCAGGGGGCTTTTGTTCCACCACCAAGTGCACA AGAGATACCTGTGGTCTCTGCACCTGCTCCAGCCCCTATTCACAACCAGTTTCCAGCTGAAAACCAGCCT GCCAATCAGAATGCTGCTCCTCAAGTGGTTGTTAATCCTGGAGCCAATCAAAATTTGCGGATGAATGCAC TACATTTTCTGTTTTTCTCAGTATCCTCTACTTCTACTCCTCCTGAGCAGATTCCTCATGGTCATGGGG GCCACCGTTGTTATGTACCTGCATCACGTTGGGTGGTTTCCATTTAGACCGAGGCCGGTTCAGAACTTCC CAAATGATGGTCCTCCTCCTGACGTTGTAAATCAGGACCCCAACAATAACTTACAGGAAGGCACTGATCC TGAAACTGAAGACCCCAACCACCTCCCTCCAGACAGGGATGTACTAGATGGCGAGCAGACCAGCCCCTCC TTTATGAGCACAGCATGGCTTGTCTTCAAGACTTTCTTTGCCTCTTCTTCCAGAAGGCCCCCCAGCCA TCGCAAACTGATGGTGTTTGTGCTGTAGCTGTTGGAGGCTTTGACAGGAATGGACTGGATCACCTGACTC CAGCTAGATTGCCTCTCCTGGACATGGCAATGATGAGTTTTTAAAAAACAGTGTGGATGATGATATGCTT TTGTGAGCAAGCAAAAGCAGAAACGTGAAGCCGTGATACAAATTGGTGAACAAAAAATGCCCAAGGCTTC TCATGTCTTTATTCTGAAGAGCTTTAATATATCTCTATGTAGTTTAATAAGCACTGTACGTAGAAGGCC AAGTCATAGATGCAGAAGTGGTTCTGCTGGTACGATTTGATTCCTGTTGGAATGTTTAAATTACACTAAG TGTACTACTTTATATAATCAATGAAATTGCTAGACATGTTTTAGCAGGACTTTTCTAGGAAAGACTTATG TATAATTGCTTTTTAAAATGCAGTGCTTTACTTTAAACTAAGGGGAACTTTGCGGAGGTGAAAACCTTTG

Human HERPUD1 Protein sequence - varl (public gi: 16507802) (SEQ ID NO: 61) MESETEPEPVTLLVKSPNQRHRDLELSGDRGWSVGHLKAHLSRVYPERPRPEDQRLIYSGKLLDHQCLR DLLPKEKRHVLHLVCNVKSPSKMPEINAKVAESTEEPAGSNRGQYPEDSSDGLRQREVLRNLSSPGWEN ISRHHVGWFPFRPRPVQNFPNDGPPPDVVNQDPNNNLQEGTDPETEDPNHLPPDRDVLDGEQTSPSFMST AWLVFKTFFASLLPEGPPAIAN

Human HERPUD1 Protein sequence - var2 (public gi: 10441911) (SEQ ID NO: 62) MQYLAATAASGAFVPPPSAQEIPVVSAPAPAPIHNQFPAENQPANQNAAPQVVVNPGANQNLRMNAQGGP IVEEDDEINRDWLDWTYSAATFSVFLSILYFYSSLSRFLMVMGATVVMYLHHVGWFPFRPRPVQNFPNDG PPPDVVNQDPNNNLQEGTDPETEDPNHLPPDRDVLDGEQTSPSFMSTAWLVFKTFFASLLPEGPPAIAN

Human HERPUD1 Protein sequence - var3 (public gi: 3005723) (SEQ ID NO: 63) GHLKAHLSRVYPERPREDQRLIYSGKLLLDHQCLRDLLPKEKRHVLHLVCNVKSPSKMPEINAKVAEST EEPAGSNRGQYPEDSSDGLRQREVLRNLSSPGWENISRPEAAQQAFQGLGPGFSGYTPYGWLQLSWFQQ IYARQYYMQYLAATAASGAFVPPPSAQEIPVVSAPAPAPIHNQFPAENQPANQNAAPQVVVNPGANQNLR MNAQGGPIVEEDDEINRDWLDWTYSAATFSVFLSILYFYSSLSRFLMVMGATVVMYLHHVGWFPFRPRPV QNFPNDGPPPDVVNQDPNNNLQEGTDPETEDPNHLPPDRDVLDGEQTSPSFMSTAWLVFKTFFASLLPEG PPATAN

Human HERPUD1 Protein sequence - var4 (public gi: 7661870) (SEQ ID NO: 64) MESETEPEPVTLLVKSPNQRHRDLELSGDRGWSVGHLKAHLSRVYPERPRPEDQRLIYSGKLLLDHQCLR DLLPKQEKRHVLHLVCNVKSPSKMPEINAKVAESTEEPAGSNRGQYPEDSSDGLRQREVLRNLSSPGWE NISRPEAAQQAFQGLGPGFSGYTPYGWLQLSWFQQIYARQYYMQYLAATAASGAFVPPPSAQEIPVVSAP APAPIHNQFPAENQPANQNAAPQVVVNPGANQNLRMNAQGGPIVEEDDEINRDWLDWTYSAATFSVFLSI LYFYSSLSRFLMVMGATVVMYLHHVGWFPFRPRVQNFPNDGPPPDVVNQDPNNNLQEGTDPETEDPNHL PPDRDVLDGEQTSPSFMSTAWLVFKTFFASLLPEGPPAIAN

ATGTGAGGAGTCCCTCAAAAAAGCCAGAAGCCAGCACAAAGGGTGCTGAGTCCACAGAGCAGCCGGACAA CACTAGTCAGGCACAGTATCCTGGGGATTCCTCAAGCGATGGCTTACGGGAAAGGGAAGTCCTTCGGAAC CCGGCTTCTCTGGCTACACCACCTACGGGTGGCTGCAGCTCTCCTGGTTCCAGCAGATCTATGCAAGACA GTACTACATGCAATACTTGGCTGCCACTGCTGCTTCAGGAGCTTTTGGCCCTACACCAAGTGCACAAGAA ATACCTGTGGTCTCTACACCGGCTCCCGCCCTATACACAACCAGTTTCCGGCAGAAAACCAGCCGGCCA ATCAGAATGCAGCCGCTCAAGCGGTTGTTAATCCCGGAGCCAATCAGAACTTGCGGATGAATGCACAAGG CGGCCCTCTGGTGGAAGAAGATGATGAGATAAACCGAGACTGGTTGGATTGGACCTACTCAGCAGCGACA TTTTCCGTTTTCCTCAGCATTCTTTACTTCTACTCCTCCTGAGCAGATTCCTCATGGTCATGGGCGCCA TGACGGTCCCCTCAGGAAGCTGCCAACCAGGACCCCAACAATAACCTCCAGGGAGGTTTGGACCCTGAA ATGGAAGACCCCAACCGCCTCCCCGTAGGCCGTGAAGTGCTGGACCCTGAGCATACCAGCCCTCGTTCA TGAGCACAGCATGGCTAGTCTTCAAGACTTTCTTTGCCTCTTCTTCCGGAAGGCCCACCAGCCCTAGC AAACTGATGGCCCCTGTGCTCTGTTGCTGGAGGCTTTCACAGCTTGGACTGGATCGTCCCCTGGCGTGGA $\tt CTCGAGAGAGTCATTGAAAACCCACAGGATGACGATGTGCTTCTGTGCCAAGCAAAAGCACAAACTAAGA$ CATGAAGCCGTGGTACAAACTGAACAGGGCCCCTCATGTCGTTATTCTGAAGAGCCTTTAATGTATACTGT ATGTAGTCTCATAGGCACTGTAAACAGAAGGCCCAGGGTCGCATGTTCTGCCTGAGCACCTCCCCAGACG TGTGTGCATGTGTGCCGTACATGGAAGTCATAGACGTGTGTGCATGTGTGCTCTACATGGAAGTCATAGA TGCAGAAACGGTTCTGCTGGTTCGATTTGATTCCTGTTGGAATGTTGCAATTACACTAAGTGTACTACTT TATATAATCAGTGACTTGCTAGACATGTTAGCAGGACTTTTCTAGGAGAGACTTATTGTATCATTGCTTT ${\tt TTAAAACGCAGTGCTTACTTACTGAGGGCGGCGACTTGGCACAGGTAAAGCCTTTGCCGGGTTTTCTGTT}$ CAATAAAGTTTTGCTATGAACGACAAAAAAAAAAAAA

Rat HERPUD1 Protein sequence (public gi: 16758962) (SEQ ID NO: 66)
MEPEPQPEPVTLLVKSPNQRHRDLELSGDRGWSVSRLKAHLSRVYPERPRPEDQRLIYSGKLLLDHQCLQ
DLLPKQEKRHVLHLVCNVRSPSKKPEASTKGAESTEQPDNTSQAQYPGDSSSDGLREREVLRNLPPSGWE
NVSRPEAVQQTFQGLGPGFSGYTTYGWLQLSWFQQIYARQYYMQYLAATAASGAFGPTPSAQEIPVVSTP
APAPIHNQFPAENQPANQNAAAQAVVNPGANQNLRMNAQGGPLVEEDDEINRDWLDWTYSAATFSVFLSI
LYFYSSLSRFLMVMGATVVMYLHHVGWFPFRQRPVQNFPDDGPPQEAANQDPNNNLQGGLDPEMEDPNRL
PVGREVLDPEHTSPSFMSTAWLVFKTFFASLLPEGPPALAN

Mouse HERPUD1 mRNA sequence (public gi: 11612514) (SEQ ID NO: 67) AAAGACGCCAAGTGTCGTTGTGTGTCTCAGACGGCTGCGTCGCCGCCCGTTCGGCATCCCTGAGCGCAG TCGAGCCGCCAGCGAGCAGACATGGAGCCCGAGCCAGCCGGGCCGGTCACGCTGCTGGTGAAGAGT CCCAATCAGCGCCACCGCGACTTGGAGCTGAGTGGCGACCGCAGTTGGAGTGTGAGTCGCCTCAAGGCCC ACCTGAGCCGAGTCTACCCCGAGCGCCCCGCGTCCAGAGGACCAGAGGTTAATTTATTCTGGGAAGCTGCT GTTGGATCACCAGTGTCTCCAAGATTTGCTTCCAAAGCAGGAAAAGCGACATGTTTTGCACCTTGTGTGC AATGTGAAGAATCCCTCCAAAATGCCAGAAACCAGCACAAAGGGTGCTGAATCCACAGAGCAGCCGGACA ACTCTAATCAGACACAGCATCCTGGGGACTCCTCAAGTGATGGTTTACGGCAAAGAGAAGTTCTTCGGAA CCTTTCTCCCTCCGGATGGGAGAACATCTCTAGGCCTGAGGCTGTCCAGCAGACTTTCCAAGGCCTGGGG $\verb|CCTGGCTTCTCTGGCTACACAACGTATGGGTGGCTGCAGCTCTCCTGGTTCCAGCAGATCTATGCAAGGC|\\$ AGTACTACATGCAATACTTAGCTGCCACTGCTGCATCAGGAACTTTTGTCCCGACACCAAGTGCACAAGA GATACCTGTGGTCTCTACACCTGCTCCGGCTCCTATACACAACCAGTTTCCGGCAGAAAACCAGCCGGCC AATCAGAATGCAGCTGCTCAAGCGGTTGTCAATCCCGGAGCCAATCAGAACTTGCGGATGAATGCACAAG GTGGCCCCTGGTGGAGGAAGATGATGAGATAAACCGAGACTGGTTGGATTGGACCTATTCCGCAGCGAC GTTTTCTGTTTTCCTCAGCATCCTTTACTTCTACTCCTCGCTGAGCAGATTTCTCATGGTCATGGGTGCC ATGATGGTGGTCCTCGAGATGCTGCCAACCAGGACCCCAACAATAACCTCCAGGGAGGTATGGACCCAGA AATGGAAGACCCCAACCGCCTCCCCCAGACCGCGAAGTGCTGGACCCTGAGCACACCAGCCCCTCGTTT ${\tt ATGAGCACAGCATGGCTAGTCTTCAAGACTTTCTTTGCCTCTTCTTCCAGAAGGCCCACCAGCCCTAG}$ CCAACTGATGGCCCTTGTGCTCTGTCGCTGGTGGCTTTGACAGCTCGGACTGGATCGTCTGGCTCCGGCT ${\tt CCTTTTCCTCCCTGGCGTGGACTCGACAGAGTCATTGAAAACCCACAGGATGACATGTGCTTCTGTGCC}$ AAGCAAAAGCACAAACTAAGACATGAAGCCGTGGTACAAACTGAACAGGGCCCCTCATGTCGTTATTCTG AAGAGCTTTAATGTATACTGTATGTAGTTTCATAGGCACTGTAAGCAGAAGGCCCAGGGTCGCATGTTCT GCCTGAGCACCTCCCCAGATGTGTGCATGTGTGCTGTACATGGAAGTCATAGACGTGTGTGCATGTGT GCTCTACATGGAAGTCATAGATGCAGAAACGGTTCTGCTGGTTCGATTTGATTCCTGTTGGAATGTTCAA ATTACACTAAGTGTACTACTTTATATAATCAGTGAATTGCTAGACATGTTAGCAGGACTTTTCTAGGAGA GACTTATGTATAATTGCTTTTTAAAATGCAGTGCTTTCCTTTAAACCGAGGGTGGCGACTTGGCAGAGGT

Mouse HERPUD1 Protein sequence (public gi: 11612515) (SEQ ID NO: 68)

MEPEPQPEPVTLLVKSPNQRHRDLELSGDRSWSVSRLKAHLSRVYPERPRPEDQRLIYSGKLLLDHQCLQ DLLPKQEKRHVLHLVCNVKNPSKMPETSTKGAESTEQPDNSNQTQHPGDSSSDGLRQREVLRNLSPSGWE NISRPEAVQQTFQGLGPGFSGYTTYGWLQLSWFQQIYARQYYMQYLAATAASGTFVPTPSAQEIPVVSTP APAPIHNQFPAENQPANQNAAAQAVVNPGANQNLRMNAQGGPLVEEDDEINRDWLDWTYSAATFSVFLSILYFYSSLSRFLMVMGATVVMYLHHVGWFPFRQRPVQNFPDDGGPRDAANQDPNNNLQGGMDPEMEDPNRLPDDREVLDPEHTSPSFMSTAWLVFKTFFASLLPEGPPALAN

- Please replace the paragraph spanning pages 101-102, beginning at line 31 on page 101 and ending at line 2 on page 102, with the following text:
 - Cell culture and transfection:

HeLa SS6 were kindly provided by Dr. Thomas Tuschl (the laboratory of RNA Molecular Biology, Rockefeller University, New York, New York). Cells were grown in Dulbecco's modified Eagle's medium (DMEM) supplemented with 10% heat-inactivated fetal calf serum and 100 U/ml penicillin and 100 μg/ml streptomycin. For transfections, HeLa SS6 cells were grown to 50% confluency in DMEM containing 10% FCS without antibiotics. Cells were then transfected with the relevant double-stranded siRNA (50-100nM) (HERPUD1: 5'-GGGAAGUUCUUCGGAACCUdTdT-3' (SEQ ID NO: 69) and 5'-dTdTCCCUUCAAGAAGCCUUGGA-5' (SEQ ID NO: 70)) using lipofectamin 2000 (Invitrogen, Paisley, UK). A day following the initial transfection cells were split 1:3 in complete medium and co-transfected 24 hours later with HIV-1NLenv1 (2 μg per 6-well) (Schubert et al., J. Virol. 72:2280-88 (1998)) and a second portion of double-stranded siRNA.

(5'-AACAGAGGCCTTGGAAACCTGGAAGCTTGCAGGTTTCCAAGGCCTCTGTT-3' (SEQ ID NO: 46); and

5'-GATCAACAGAGGCCTTGGAAACCTGCAAGCTTCCAGGTTTCCAAGGCCTCTGTT-3' (SEQ ID NO: 47)) were annealed and cloned into the BamHI-EcoRV site of pLIT-U6, generating pLIT-U6 hPOSH-230. The pLIT-U6 is an shRNA vector containing the human U6 promoter (amplified by PCR from human genomic DNA with the primers, 5'-GGCCCACTAGTCAAGGTCGGGCAGGAAGA-3' (SEQ ID NO: 48) and 5'-GCCGAATTCAAAAAGGATCCGGCGATATCCGGTGTTTCGTCCTTTCCA-3' (SEQ ID NO: 49)) cloned into pLITMUS38 (New England Biolabs, Inc.) digested with SpeI-EcoRI. Subsequently, the U6 promoter-hPOSH shRNA (pLIT-U6 hPOSH-230 digested with SnaBI and PvuI) was cloned into the Olil site of pMSCVhyg (BD Biosciences Clontech) generating

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pMSCVhyg U6-hPOSH-230.